



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-10-09-15 Date: 08-08-19
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11
Agency : Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,
#280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara,
Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-08-19
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 06-08-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	—
2	Fineness by Air permeability method (m ² /kg, Min)	348.6	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R RUDRAPRASAD

Authorized Signatory

Technical Manager



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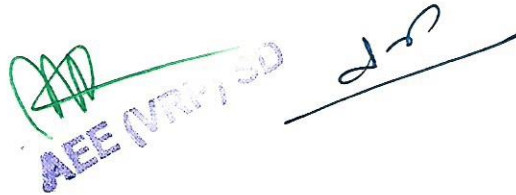
TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-10-09-15 Date: 03-09-19
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-08-19
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 06-08-19
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-10-09-15 Date: 08-08-19
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division,
BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward
No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development
Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block,
Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 05-08-19
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-10-09-15

Date: 08-08-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	—
4	Bulk Density(Loose) (Kg/l)	1.41	—
5	Bulk Density(Compacted) (Kg/l)	1.47	—
6	Water Absorption(%)	0.23	—

Note:

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All information furnished by Customer/Representative

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Technical Manager



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-10-09-15 **Date:** 07-08-19
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-08-19
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-08-19

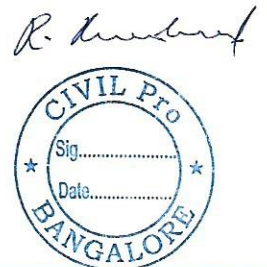
SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-10-09-15

Date: 07-08-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.43	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.23	—
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Technical Manager

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End of Report



TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-10-09-15 Date: 07-08-19

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/182/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-08-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 05-08-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	52	80	8.0	92.0	60-95	75-100	85-100	95-100
4	1.18 mm	240	320	32.0	68.0	30-70	55-90	75-100	90-100
5	600 micron	205	525	52.5	47.5	15-34	35-59	60-79	80-100
6	300 micron	201	726	72.6	27.4	5-20	8-30	12-40	15-50
7	150 micron	194	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II



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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-10-09-15

Date: 07-08-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 Date: 20/08/2019
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-08-19
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	13/08/2019	20/08/2019	151.64 X	22930	8.241	431.1	18.8	18.4
					151.21 X					
					150.43					
2	Cement Concrete Pavement	M20	13/08/2019	20/08/2019	150.68 X	22755	8.187	416.5	18.3	
					151.01 X					
					149.45					
3	Cement Concrete Pavement	M20	13/08/2019	20/08/2019	151.71 X	22923	8.641	416.5	18.2	
					151.10 X					
					151.64					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 **Date:** 10/09/2019
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-08-19
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	150.35 X	22494	8.449	526.9	23.4	23.0
					149.61 X					
					150.95					
2	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	150.46 X	22613	8.687	501.4	22.2	
					150.29 X					
					149.07					
3	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	151.49 X	22935	8.364	538.6	23.5	
					151.40 X					
					151.39					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 **Date:** 20/08/2019
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-08-19
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M20	13/08/2019	20/08/2019	149.12 X 150.92 X 150.53	22505	8.241	408.3	18.1	18.5
2	Cement Concrete Pavement	M20	13/08/2019	20/08/2019	151.76 X 149.89 X 151.28	22747	8.187	422.9	18.6	
3	Cement Concrete Pavement	M20	13/08/2019	20/08/2019	149.17 X 150.10 X 151.75	22390	8.641	421.7	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 **Date:** 10/09/2019
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-08-19
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/09/2019

SL. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	150.72 X 150.97 X 151.92	22754	8.449	530.3	23.3	23.2
2	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	151.56 X 151.36 X 149.48	22940	8.687	520.6	22.7	
3	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	150.27 X 151.27 X 150.51	22731	8.364	538.6	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 **Date:** 20/08/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/182/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	13/08/2019	20/08/2019	149.13 X	22643	8.241	428.0	18.9	18.7
					151.84 X					
					151.29					
2	Cement Concrete Pavement	M20	13/08/2019	20/08/2019	150.83 X	22494	8.187	416.0	18.5	
					149.13 X					
					150.80					
3	Cement Concrete Pavement	M20	13/08/2019	20/08/2019	150.37 X	22434	8.641	419.7	18.7	
					149.19 X					
					151.41					

Note:

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Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 **Date:** 10/09/2019
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-08-19
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	150.31 X	22788	8.449	542.3	23.8	23.4
					151.61 X					
					150.86					
2	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	149.52 X	22485	8.687	504.0	22.4	
					150.38 X					
					149.09					
3	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	149.46 X	22661	8.364	542.5	23.9	
					151.61 X					
					149.34					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 **Date:** 21/08/2019

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/182/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M20	14/08/2019	21/08/2019	149.74 X 151.42 X 149.11	22672	8.241	424.3	18.7	18.5
2	Cement Concrete Pavement	M20	14/08/2019	21/08/2019	151.17 X 151.13 X 151.74	22846	8.187	412.3	18.0	
3	Cement Concrete Pavement	M20	14/08/2019	21/08/2019	149.99 X 150.24 X 151.15	22534	8.641	422.8	18.8	

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Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 **Date:** 11/09/2019
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-08-19
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 11/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	14/08/2019	11/09/2019	150.71 X	22742	8.449	527.0	23.2	22.9
					150.90 X					
					151.47					
2	Cement Concrete Pavement	M20	14/08/2019	11/09/2019	151.79 X	23027	8.687	508.6	22.1	
					151.70 X					
					149.94					
3	Cement Concrete Pavement	M20	14/08/2019	11/09/2019	150.11 X	22569	8.364	527.7	23.4	
					150.35 X					
					149.74					

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Technical Manager



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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

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Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.
Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-08-19
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 21/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	14/08/2019	21/08/2019	149.15 X	22563	8.241	408.9	18.1	18.3
					151.28 X					
					151.78					
2	Cement Concrete Pavement	M20	14/08/2019	21/08/2019	151.54 X	22624	8.187	423.0	18.7	
					149.30 X					
					150.75					
3	Cement Concrete Pavement	M20	14/08/2019	21/08/2019	150.79 X	22720	8.641	413.7	18.2	
					150.68 X					
					151.25					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 **Date:** 10/09/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/182/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	149.68 X 151.62 X 151.66	22695	8.449	529.1	23.3	23.1
2	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	151.22 X 149.21 X 150.08	22563	8.687	511.1	22.7	
3	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	151.02 X 150.45 X 151.85	22722	8.364	532.8	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 Date: 21/08/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Navodaya School Road in Ward No 11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/182/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M20	14/08/2019	21/08/2019	150.02 X 151.10 X 151.39	22668	8.241	421.1	18.6	18.4
2	Cement Concrete Pavement	M20	14/08/2019	21/08/2019	150.35 X 150.01 X 150.04	22553	8.187	407.7	18.1	
3	Cement Concrete Pavement	M20	14/08/2019	21/08/2019	150.62 X 151.41 X 151.35	22805	8.641	423.7	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-10-09-15 Date: 10/09/2019
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Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
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Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/182/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-08-19
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/09/2019

SL. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	151.84 X	22866	8.449	548.1	24.0	23.4
					150.60 X					
					150.84					
2	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	150.31 X	22635	8.687	509.8	22.5	
					150.59 X					
					150.12					
3	Cement Concrete Pavement	M20	13/08/2019	10/09/2019	150.66 X	22650	8.364	539.2	23.8	
					150.34 X					
					150.96					

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